of Beirut

AMERICAN UNIVERSITY OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN : DIRECTOR

HALIM HOURANI : OBSERVER

BEIRUT, LEBANON

Latitude : 33° 54' 22" N.

Longitude : 2^h 21^m 52^s . 7 E.

November 1960

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WEATHER BUREAU

Jourdy Press — Tel. : 43010

NOVEMBER 1960
METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. †...				Thermometer Degrees Centigrade					
	8:30	41:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	59.8	58.0	58.0	58.6	27.4	15.9	23.2	25.1	23.0	23.8
2	56.4	56.0	57.1	56.5	23.6	16.0	16.0	15.9	18.6	16.8
3	59.3	59.9	60.7	60.0	21.3	18.3	20.7	18.6	19.0	19.4
4	61.5	61.3	61.6	61.5	24.0	17.6	20.0	19.2	17.5	18.9
5	62.5	61.6	62.5	62.2	24.0	19.1	20.2	22.5	20.5	21.1
6	63.5	62.4	62.7	62.9	24.0	19.4	21.3	23.0	20.5	21.6
7	62.3	61.3	61.7	61.8	25.0	20.0	20.8	23.4	21.0	21.7
8	62.5	62.0	62.7	62.4	25.0	19.9	21.4	23.5	21.5	22.1
9	63.6	62.1	62.9	62.9	23.5	18.9	21.5	22.8	22.0	22.1
10	62.8	61.5	61.7	62.0	23.7	18.5	20.2	22.3	20.3	20.9
11	62.2	61.4	61.9	61.8	24.2	19.7	20.5	23.0	21.0	21.5
12	63.5	62.6	63.0	63.0	26.1	20.1	22.0	24.0	21.5	22.5
13	63.0	61.8	61.6	62.1	24.9	20.6	22.5	23.5	21.5	22.5
14	61.5	59.8	60.3	60.5	25.0	21.5	21.3	23.7	22.5	22.5
15	60.6	59.4	59.5	59.8	26.6	21.0	22.4	24.4	22.0	22.9
16	60.7	59.6	59.8	60.0	26.1	16.2	22.4	24.0	21.0	22.5
17	59.5	57.3	61.9	59.6	23.8	13.4	18.0	22.4	19.5	20.0
18	57.0	56.3	56.9	56.7	20.2	14.7	14.5	18.7	19.5	17.6
19	60.0	60.8	61.4	60.7	20.6	15.7	19.8	20.5	18.0	19.4
20	64.3	63.9	65.2	64.5	22.6	15.7	21.0	20.7	17.0	19.6
21	65.9	65.0	65.3	65.4	21.2	16.8	17.4	19.8	17.5	18.2
22	64.7	64.1	64.1	64.3	22.2	16.5	21.5	21.0	19.5	20.7
23	63.5	61.2	60.9	61.9	21.2	17.7	17.5	20.6	19.0	19.0
24	60.2	58.9	59.8	59.6	24.5	18.8	20.0	22.1	20.2	20.8
25	61.8	61.2	61.5	61.5	24.5	18.4	21.0	22.7	20.0	21.2
26	61.7	60.0	59.4	60.4	23.8	14.2	20.4	22.0	19.0	20.5
27	59.1	58.6	59.6	59.1	20.0	14.0	19.0	18.5	14.0	17.2
28	62.1	62.0	64.3	62.8	21.2	16.5	17.2	19.6	17.5	18.1
29	66.1	65.7	66.6	66.1	20.9	16.5	18.5	19.0	18.3	18.6
30	67.2	65.9	66.0	66.4	22.3	16.7	20.5	21.5	18.2	20.1
31										
	61.96	61.05	61.69	61.57	23.45	17.61	20.09	21.60	19.69	20.46

Bnrometer, range 767.2 mm — 756.0 mm
» » 71-yrs. average 762.63 mm.
Thermometer, range 27.4 °C — 13.4 °C
« » 82-yrs. average 19.5 °C
Rain. total for month 205.35 mm
» » 82-yrs. average for month 133.4 mm
« » total from Sept. 1st 254.44 mm
« » 82-yrs. average from Sept. 1st 187.27 mm

NOVEMBER 1960

METEOROLOGICAL REGISTRE

Date	Pressure of Water Vapour Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kmsr	m. m.
1	20.9	23.3	20.6	21.6	73	73	73	73	8.2	106	
2	15.7	16.4	15.1	15.7	87	92	71	83	2.6	161	21.62
3	16.2	16.0	16.5	16.2	67	76	76	73	0.0	69	0.82
4	17.8	20.4	17.4	18.5	76	92	87	85	1.5	77	17.70
5	17.7	18.0	18.5	18.1	75	66	76	72	9.1	13	
6	18.7	19.0	22.4	20.0	73	68	79	73	9.2	18	
7	19.3	18.9	18.3	18.8	78	65	73	72	9.2	34	
8	14.4	17.7	18.5	16.9	55	61	72	63	9.5	27	
9	14.5	19.3	18.5	17.4	55	70	70	65	9.5	154	
10	16.0	15.5	16.8	16.1	68	58	70	65	9.4	19	
11	15.2	16.3	18.3	16.6	62	58	73	64	9.4	50	
12	18.2	20.1	19.9	19.4	70	68	76	71	9.4	21	
13	18.0	16.9	19.9	18.3	66	58	76	67	6.5	37	
14	19.2	20.6	11.6	17.1	75	71	42	63	9.0	42	
15	18.4	19.9	20.6	19.6	68	65	77	70	7.3	58	
16	19.3	20.6	18.3	19.4	71	70	73	71	8.7	23	
17	15.0	17.9	17.5	16.8	73	66	77	72	4.6	163	36.41
18	14.2	16.5	12.5	14.4	86	77	54	72	2.6	301	57.59
19	10.3	11.2	11.0	10.8	44	45	53	47	7.7	330	3.00
20	13.3	11.5	11.7	12.2	53	48	60	54	5.9	14	
21	11.8	14.1	13.2	13.0	58	60	66	61	8.5	24	
22	14.9	15.8	16.4	15.7	57	63	72	64	8.7	76	
23	11.9	13.4	12.7	12.7	58	55	58	57	8.7	68	
24	13.1	17.1	13.3	14.5	56	64	56	59	7.2	16	
25	18.8	21.2	19.9	20.0	75	77	85	79	4.9	77	
26	19.2	18.7	15.4	17.8	79	71	70	73	7.3	106	
27	16.5	15.2	15.3	15.7	76	71	95	81	0.0	116	61.47
28	15.5	16.9	14.8	15.7	80	75	74	76	7.7	76	2.55
29	14.0	18.1	16.0	16.0	66	83	76	75	1.6	84	4.19
30	17.6	16.2	14.8	16.2	73	62	71	69	4.0	55	
31											
	16.19	17.42	16.52	16.71	68.4	67.6	71.0	69.0	6.60	80.50	6.84

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric date from readinge of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M. O. 265.
Rim of Rain Gauge : above groend 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20.30 for the preceding 24 hours.
71 year averages are for period, 1875 - 1943

NOVEMBER 1960
METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				Beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	1cu-st	9st	10st-ci	6.7	3sw	3sw	1sw	light	D; a.m. Hallow
2	10st	10st	10st-ni	10.0	4s	3s	2sw	,,	W. p.m.
3	10st	10st	10st	10.0	2ne	1sw	1sw	,,	
4	10st	10ni	0	6.7	2sw	3s	1sw	,,	T. p.m.
5	0	0	0	0.0	1e	1ne	1ne	,,	
6	0	0	0	0.0	1se	1nw	1nw	light	
7	0	2cu-st	0	0.7	1ne	2ne	0	,,	D; a.m.
8	0	1cu	0	0.3	2sw	3ne	0	,,	
9	0	1st	1ci	0.7	3ne	4ne	1ne	,,	
10	3ci	0	0	1.0	1s	3ne	1ne	,,	D; a.m.
11	0	0	0	0.0	1e	1w	1sw	light	D; a.m.
12	1cu	3cu-ci	1ci	1.7	1sw	1ne	0	,,	D: a.m.
13	9st-ci	7st-ci	0	5.3	1sw	1sw	1sw	,,	D; a.m.
14	0	5ci-cu	0	1.7	0	1ne	1ne	,,	D;a.m.Hotwindatnight
15	3ci	5ci-st	0	2.7	1sw	1ne	1ne	,,	
16	2cu-st	10ci	0	4.0	2sw	2n	0	light	D; a.m.
17	10st-cu	1cu-st	8cu-st	6.3	3sw	4sw	3sw	,,	T; a.m· p.m.
18	10cu-st	10cu-st	3cu-st	7.7	4s	5w	4sw	slight	T; a.m.
19	10cu-st	5cu-st	3cu	5.7	5n	2ne	1ne	light	
20	1cu	1cu	0	0.7	1sw	1sw	2sw	,,	
21	0	0	0	0.0	0	1ne	0	light	
22	0	0	0	0.0	1ne	1ne	1ne	,,	
23	0	0	0	0.0	1e	3ne	1ne	,,	
24	7ci	10ci	1ci	6.0	1s	1w	0	,,	D; a.m.
25	10ci	10st-ci	5st-ci	8.3	2sw	2w	1sw	,,	
26	10st-ci	3cu-st	10cu-st	7.7	2s	1sw	2sw	light	
27	10cu-st	10cu-ni	10cu-ni	10.0	1sw	2sw	1sw	,,	T; a.m.
28	2cu	6cu-st	0	2.7	2sw	3sw	1sw	,,	
29	10st	10st-ni	10st-ni	10.0	2s	2sw	2sw	,,	
30	8cu-st	5cu-st	6ci	6.3	1s	1sw	1sw	,,	Tr; p.m.
31									
				4.10					

Abbreviation : G = gale ; H = haze ; M = mist ; T = Thunderstorm ; D – dew
W = strong wind ; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	4	3	1	7	12	0	0	2	30
14:30	1	12	0	0	2	10	4	1	0	30
20:30	0	8	0	0	0	15	0	1	6	30
Total	2	24	3	1	9	37	4	2	8	90

Number of days with rain 9, fog 0, Thunderstorms 4, gale 0
71-yrs. average number of days with rain during month 9.4